

Title (en)
SUMMARIZING A GENOMIC DATA ENTRY

Title (de)
ZUSAMMENFASSUNG EINER GENOMISCHEN DATENEINGABE

Title (fr)
RÉCAPITULATIF D'UNE ENTRÉE DE DONNÉES GÉNOMIQUES

Publication
EP 3786961 A1 20210303 (EN)

Application
EP 19194491 A 20190829

Priority
EP 19194491 A 20190829

Abstract (en)
Some embodiments are directed to a device 101 for determining a summary of a genomic data entry describing one or more genomic sequences. The summary is for offering the genomic data entry to one or more other parties. The device obtains the genomic data entry and analyse the genomic data entry to verify whether it satisfies one or more predefined properties. The device computes a cryptographic commitment to the genomic data entry. For each satisfied property of the one or more predefined properties, the device constructs a non-interactive zero-knowledge proof (NIZK) proving that the cryptographic commitment commits to a genomic data entry satisfying the satisfied property. The device associates the NIZKs with the cryptographic commitment to obtain a summary of the genomic data entry.

IPC 8 full level
G16B 50/40 (2019.01); **H04L 9/08** (2006.01); **H04L 9/32** (2006.01)

CPC (source: EP)
G16B 50/40 (2019.01); **H04L 9/3218** (2013.01); **H04L 9/3239** (2013.01); **H04L 2209/88** (2013.01)

Citation (applicant)

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Designated contracting state (EPC)
AL AT BE BG CH CY CZ DE DK EE ES FI FR GB GR HR HU IE IS IT LI LT LU LV MC MK MT NL NO PL PT RO RS SE SI SK SM TR

Designated extension state (EPC)
BA ME

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